

C1
Amended

i) a stator having multiple conductors that create a plurality of magnetic fields when electrical current is conducted by the conductors; and

ii) a body of a phase change material substantially encapsulating the stator so as to rigidly fix the stator and body together;

b) a rotatable hub having a magnet connected thereto in operable proximity to the stator;

c) a shaft;

d) a bearing around the shaft; and

e) one of the shaft or bearing being fixed to the stator assembly and the other of the shaft or bearing being fixed to the rotatable hub.

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57. (Amended) A high speed spindle motor comprising:

a) a stator substantially encapsulated in a thermoplastic body so as to rigidly fix the stator and body together, the thermoplastic body having a cylindrical hole therein;

b) a bearing press fit into the cylindrical hole;

c) a shaft rotatably supported by the bearing; and

d) a hub having a magnet connected thereto, the hub being fixed to the shaft.

58. (Amended) A motor comprising:

a) a stator assembly comprising:

i) a stator having at least one conductor and a plurality of magnetic fields when electrical current is conducted by the at least one conductor; and

ii) a body of a phase change material substantially encapsulating the stator so as to rigidly fix the stator and body together, the phase change material including ceramic particles;

b) a magnet in operable proximity to the stator;

c) a shaft having a rotational axis;

d) a bearing allowing rotation about the rotational axis of the shaft;

and

C2
Amended

- e) one of the shaft or bearing being fixed to the stator assembly.

59. (Amended) A motor comprising:

- a) a stator assembly comprising:

- i) a stator having at least one conductor and a plurality of magnetic fields when electrical current is conducted by the at least one conductor; and

- ii) a body of a phase change material substantially encapsulating the stator so as to rigidly fix the stator and body together, the phase change material having a coefficient of linear thermal expansion of less than 2×10^{-5} in/in/°F throughout the range of 0-250°F;

- b) a magnet in operable proximity to the stator;

- c) a shaft having a rotational axis;

- d) a bearing allowing rotation about the rotational axis of the shaft;

and

- e) one of the shaft or bearing being fixed to the stator assembly.

60. (Amended) A motor comprising:

- a) a stator assembly comprising:

- i) a stator having at least one conductor and a plurality of magnetic fields when electrical current is conducted by the at least one conductor; and

- ii) a body of a phase change material substantially encapsulating the stator so as to rigidly fix the stator and body together, the phase change material having a thermal conductivity of at least 0.7 watts/meter²K at 23°C;

- b) a magnet in operable proximity to the stator;

- c) a shaft having a rotational axis;

- d) a bearing allowing rotation about the rotational axis of the shaft;

and

- e) one of the shaft or bearing being fixed to the stator assembly.